ASTD/TDI Project Static Report

Slurry Monitoring

Focus Area: Tanks Focus Area
TTP No.: RL08SD10
Lead Site: Richland
Project No.: 98-TDI-12
Tech ID/TMS No.:

Focus Area Manager: Marcus Glasper, (509) 372-4012
Principal Investigator: Tom May, (509) 372-4926

Technology Vendor(s)/Commercial Partner(s):
None identified at this time

Related Publication(s): None

Web Page(s):

Description: Large quantities of radioactive sludge will be retrieved from waste tanks at Oak Ridge, INEEL, and Hanford. In the past plugging has occurred in the transfer lines requiring very expensive unplugging operations or line replacement. These technologies measure physical properties of the pumped slurry in real time allowing corrective action before line plugging occurs.
-Particle size analyzer - measures particle distribution (Lasentec).
-Measures slurry density (Endress & Hauser).
-Measures desity of slurry at beginning and end of transfer lien to detect sedimentation occurring in the line (PNNL/Sigma Transducers)

Application: All sites where tank-to-tank or tank-to-processing plant transfer of slurry occurs.

Location(s): Hanford, between C-106 and AY-102; and between SY-101 and SY-102

Technology(ies):

Lasentec Particle Size Analyzer
Red Valve Pressure Transducer
Ultrasonic Densimeter

Funding ($K):	FY-98	FY-99	FY-00	FY-01	Total
TTP No.: RL08SD10	$220	$473	$0	$0	$693
Leverage Source: --					$0
				Funding Total ($K):	$693

Cost Savings ($M):	Proposal	Deployment Plan/TTP	Current Focus Area Projection
	Pending	Pending	$8,500